

GARTH HASELDEN

+61 401 575 538 / gahaselden@yahoo.com

Manufacturing & Industrial Engineer (Aerospace)

AREAS OF EXPERTISE

- Production scheduling and optimisation
- Business Development, New Product Development
- Digital work instructions & training development
- Virtual Manufacturing, 3D Design and Reverse Engineering
- Geometric Dimensioning & Tolerancing (ASME 14.5Y)
- 3D Metrology

CAREER SNAPSHOT

Manufacturing Engineer / Industrial Engineer

BOEING DEFENCE AUSTRALIA (Jul 05 – Present)

Boeing Defence Australia (BDA) is a subsidiary of the Boeing Company providing maintenance and modification support to the Australian Defence Forces and other military customers across a range of air, land and sea platforms.

Manufacturing Quality Engineer (Secondment)

BOEING AEROSTRUCTURES AUSTRALIA (Dec '06 3 months; Apr '07 4 months, Mar '08 3 months)

Boeing Aerostructures Australia is a subsidiary of the Boeing Company manufacturing the composite moveable trailing edge for the Boeing 787 as well as metallic and composite assemblies for other civil and military aircraft types.

Manufacturing / Project Engineer

TRIDON AUSTRALIA (Dec '04 – Jul '05)

Tridon is a QS9000 certified specialist automotive component manufacturer operating a semi-automated manufacturing and distribution facility in Sydney, Australia.

International Travel

(Feb '04 – Dec '04)

Quality / Project Engineer

GOODRICH AEROSPACE (Dec '02 – Feb '04)

Goodrich Aerospace is a subsidiary of Goodrich Corporation operating an aircraft wheel and brake repair and overhaul facility, servicing major airlines and military customers in Australia.

TERTIARY EDUCATION

Masters of Business & Technology

University of New South Wales (2009)

Bachelor of Engineer (Aeronautical Engineering - Honours)

University of Sydney (2002)

IT PROFICIENCY

- Project, Word, Excel, PowerPoint and Visio
- CATIA V5 (Computer Aided Design)
- DELMIA V5 (3D Simulation and Process Design)
- Verisurf / Mastercam (Computer Aided Manufacture)
- Right Hemisphere (3D work instruction)

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EXPERIENCE & ACHIEVEMENTS

Manufacturing Engineer / Industrial Engineer

Boeing Defence Australia

As a manufacturing engineer, my role is to undertake manufacturing process activities in support of existing projects and the pursuit of new business.

Key Accountabilities:

- Provide support to the business development organisation with discrete event and scripted animation simulation to validate production concepts.
- Lead the computer aided metrology capability supporting internal programs and develop a marketable service for external customers.
- Provide a focus for reverse engineering activities within the organisation including development and maintenance of processes, tools, and subject matter expertise.
- Lead the introduction of 3D computer aided design and manufacture capabilities.

Achievements:

- Coordinated the first antenna installation on a major aircraft modification program ensuring technical requirements were successfully achieved.
- Co-developed a robust virtual manufacturing capability, incorporating the use of 3D measurement in support of existing programs. Across multiple programs this has contributed to successful aircraft modification and repair, and significantly reduced the amount of rework associated with complex engineering activities.
- Simulated two full scale aircraft maintenance and modification activities; highlighting constraints that would have resulted in a failure of production operations had the concepts been implemented, and providing a validation of a lean production concept for presentation to the customer.
- Developed a digital shim definition and virtual assembly procedure for a complex aircraft installation task which resulted in a 60% reduction in process time equating to 500 labour hours.

Manufacturing Quality Engineer (Secondment)

Boeing Aerostructures Australia

As an MQE I was responsible for leading the computer aided metrology team in support of production and acting as the point of contact for metrology issues.

Key Accountabilities:

- Lead the metrology team and coordinate personnel and equipment in support of production.
- Inspect and approve B787 composite components and sub-assemblies and interface with engineering and program management on product quality issues.
- Train and develop graduate engineers and operators in correct use of equipment and software.
- Improve measurement and inspection process; develop standard work processes and identify opportunities for in process inspection.

Achievements:

- Trained existing operators and new graduates in the correct use of metrology software and tools resulting in 30% cycle time improvement.
- Implemented preventative maintenance processes on metrology equipment.
- Contributed to the development of supplementary hard tooling which addressed specific product quality issues resulting in removal of 5 recurring non-conformances.
- Developed standard work and introduced in-process inspection resulting in a 25% improvement in response time. This led to inclusion of product validation earlier in the process and an overall reduction of the non-conformance workload at final inspection.

Manufacturing / Project Engineer

Tridon Australia

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The manufacturing /project engineer is responsible for coordination of the process improvement program, design of new plant equipment, machine improvements and coordination of sub-contractors as well as ensuring OH&S compliance.

Key Accountabilities:

- Analyse workforce allocations and facility layout, and make recommendations for efficient utilisation of resources.
- Evaluate current manufacturing methods and develop improved solutions based on new technologies and techniques.
- Manage OH&S compliance for manufacturing operations.

Achievements:

- Managed fabrication and installation of new capital equipment, reducing direct labour costs and increasing production capacity.
- Initiated a plant wide PLC network enabling the provision of accurate efficiency reporting and maintenance scheduling.
- Began the implementation of a company wide electronic maintenance program to move towards total preventative maintenance aimed at reducing machine downtime.

TRAINING & PROFESSIONAL DEVELOPMENT

Technical

- Catia V5 Quick Surface Reconstruction, Concentric Asia Pacific (2008)
- Catia V5 Digitised Shape Editor, Concentric Asia Pacific (2008)
- Delmia V5 Digital Process for Manufacturing, Concentric Asia Pacific (2007)
- Delmia V5 Human Modelling, Concentric Asia Pacific (2007)
- Delmia Quest Simulation, Concentric Asia Pacific (2007)
- Catia V5 Advanced Surface Design, Concentric Asia Pacific (2006)
- Catia V5 Part Design / Product Design, Concentric Asia Pacific (2006)
- Catia V5 Fundamentals, Concentric Asia Pacific (2006)

- Geometric Dimensioning and Tolerancing (ASME 14.5Y), Concentric (2006)
- Catia V5 Surface Design, Concentric Asia Pacific (2006)

Business

- Basic Estimating, Boeing (2009)
- Leadership Development, Boeing (2008/9)
- Leadership Discovery, Boeing (2008/9)
- System Safety, Boeing (2007)
- Engineering Management, Boeing (2007)
- Integrated Product Team Workshop, Boeing (2005)
- Lean – Value Stream Mapping, Boeing (2005)
- Internal Auditing, SAI Global (2004)

REFERENCES

Graham Day

Technical Manager (Manufacturing Engineering) - Former
Boeing Defence Australia
+617 3306 6351

David Harvey

Engineering Manager – Former
Boeing Defence Australia
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